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<223> Xaa stands for Glu or Lys

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<222> (6)..(6)

<223> Xaa stands for Thr or Ser

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Gly Thr Xaa His Xaa Xaa Ile

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1 5

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<223> Xaa stands for Phe or Ile

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Gly Xaa Xaa Xaa Xaa Ser Ile Ser Xaa Ser  
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Tyr Xaa Xaa Thr Ile Ser

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<210> 152

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Ser Ile Asn Ile

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<220>  
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1 5 10

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Val Lys Gln Thr Asn Ile Tyr Thr Ala Ser Ile Arg

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1 5 10

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<211> 7

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Lys Val Tyr Ile Ser Thr Ile

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<223> Xaa stands for Gln or Ser

<400> 158

Lys Xaa Tyr Xaa Ser Xaa Ile Xaa Xaa Xaa Xaa Pro

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Ser Thr Ile Ser

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Tyr Xaa Ser Ser Ile Xaa Xaa Xaa Ser

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<223> Xaa stands for Ser or Pro

<400> 161

Thr Tyr Tyr Xaa Xaa Xaa Ile

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<223> Peptide binding to mouse IgG Fc fragment obtained from a combinat  
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<210> 164

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Thr Ala Thr Leu Xaa Arg

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<210> 165

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⟨220⟩

⟨223⟩ Peptide binding to human IgG Fc fragment obtained from a combinat  
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⟨400⟩ 165

10

Lys Leu Phe His Leu Ser Ala

1 5

⟨210⟩ 166

⟨211⟩ 7

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⟨212⟩ PRT

⟨213⟩ Artificial

⟨220⟩

⟨223⟩ Peptide binding to human IgG Fc fragment obtained from a combinat  
orial phage display peptide library

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⟨400⟩ 166

Lys Leu Tyr His Leu Ser Ile

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⟨210⟩ 167

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⟨211⟩ 7

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Lys Thr Tyr Val Ser His Leu

1 5

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Gly Trp Ile Ser Val Pro Leu

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1 5

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1 5 10

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40

Gly Ser Ile Ser Ser Ser Leu Ser Tyr Ser Pro Ser

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Ala Ser Leu Thr Ser Phe Leu Ser Tyr Ser Tyr Ala

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<223> Peptide binding to human IgG Fc fragment obtained from a combinat  
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Ile Gln Val Lys Ser Ser Ser Leu Arg Leu Ser Gly  
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His Gln Tyr Thr Ser Ser Ile Ser Ser Leu Gly Thr  
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Gly Thr Tyr Leu Ser His Leu Ser Tyr Ser Ala Gly  
1 5 10

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<210> 186

<211> 12

<212> PRT

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<223> Peptide binding to human IgG Fc fragment obtained from a combinat

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## combinatorial phage display peptide library

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Gly Leu Tyr Thr Ser Ser Leu Arg Phe Trp Pro Pro  
1 5 10

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&lt;210&gt; 187

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Artificial

&lt;220&gt;

20

<223> Peptide binding to human IgG Fc fragment obtained from a combinat  
combinatorial phage display peptide library

&lt;400&gt; 187

Gly Thr Tyr Ser Ser Tyr Leu Ser Ser His Thr Pro  
1 5 10

30

&lt;210&gt; 188

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Artificial

40

&lt;220&gt;

<223> Peptide binding to human IgG Fc fragment obtained from a combinat  
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Ala Asn Tyr Ser Ser Ser Met Val Tyr Gln Pro Pro

1 5 10

10

<210> 189

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<212> PRT

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<220>

<223> Peptide binding to human IgG Fc fragment obtained from a combinat  
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Asn Pro Thr Thr Tyr Arg Ser Ser Val Ser Phe Ala

1 5 10

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<211> 12

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Leu Pro Gln Asn Tyr Ile Ser Arg Leu Ser Ile Arg  
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<223> Peptide binding to human IgG Fc fragment obtained from a combinat  
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<223> Peptide binding to human IgG Fc fragment obtained from a combinat  
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Lys Leu Tyr Ser Ser Gln Pro Gln Trp Leu Leu Pro

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<210> 193

<211> 12

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Gly Val Tyr Thr Ser His Met Ala Asn Trp Ser Met

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Lys Leu Tyr Ser Ser Gln Pro Gln Trp Leu Leu Pro  
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<211> 12

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Ala Val Tyr Thr Ser Lys Met Ser Val Asn Asn Thr

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<210> 198

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<223> Peptide binding to human IgG Fc fragment obtained from a combinat  
orial phage display peptide library

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Gly Thr Val Lys Ser His Leu Ser Phe Pro Met Ala  
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<223> Peptide binding to human IgG Fc fragment obtained from a combinat  
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Ser Thr Ile Lys Ser Ser Ile Ala Val Gly Thr Trp  
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<223> Peptide binding to human IgG Fc fragment obtained from a combinat  
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Gly Thr Tyr Val Ser His Leu His Asn Gln Leu Pro

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<210> 201  
<211> 12  
<212> PRT  
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<220>

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Gly Tyr Ile Lys Ser Ser Leu Ser Ala Asn Thr Thr  
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20

<210> 203  
<211> 12  
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<223> Peptide binding to human IgG Fc fragment obtained from a combinat  
orial phage display peptide library

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Lys Ser Ile Thr Ser Ser Leu Ser Tyr Ala Leu Ser  
1 5 10

40

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<211> 12  
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<210> 205  
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30

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orial phage display peptide library

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Gly Tyr Ile Lys Ser Ser Leu Ser Ala Asn Thr Thr



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<211> 12

<212> PRT

<213> Artificial

10

<220>

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orial phage display peptide library

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1 5 10

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30

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<223> Peptide binding to human IgG Fc fragment obtained from a combinat  
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1

5

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<210> 208

<211> 12

<212> PRT

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10

<220>

<223> Peptide binding to horse IgG Fc fragment obtained from a combinat  
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Gly Val Asp Val Gly Thr Pro Ile Lys Tyr Phe Pro

1

5

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<210> 209

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Gly Leu Tyr Thr Ser Ser Leu Arg Phe Trp Pro Pro  
1 5 10

30

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<211> 12

<212> PRT

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<220>

<223> Peptide binding to horse IgG Fc fragment obtained from a combinat  
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<400> 211

Ala Thr Leu Trp Gly Asn Pro Val Phe Tyr Ser Pro  
1 5 10

10

<210> 212

<211> 12

<212> PRT

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<220>

<223> Peptide binding to horse IgG Fc fragment obtained from a combinat  
orial phage display peptide library

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<400> 212

Ala Thr Leu Trp Gly Asn Pro Val Ser Tyr Ser Pro  
1 5 10

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<210> 213

<211> 12

<212> PRT

<213> Artificial

<220>

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## combinatorial phage display peptide library

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1 5 10

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&lt;210&gt; 214

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Artificial

&lt;220&gt;

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<223> Peptide binding to sheep IgG Fc fragment obtained from a combinat  
combinatorial phage display peptide library

&lt;400&gt; 214

Glu Phe Met His Ile Gly Tyr Phe Thr Val Pro Arg  
1 5 10

30

&lt;210&gt; 215

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Artificial

40

&lt;220&gt;

<223> Peptide binding to sheep IgG Fc fragment obtained from a combinat  
 orial phage display peptide library

<400> 215

Lys Asn Tyr Ile Ala Thr Met Thr Val Pro Leu Ser

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10

<210> 216

<211> 12

<212> PRT

<213> Artificial

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<220>

<223> Peptide binding to sheep IgG Fc fragment obtained from a combinat  
 orial phage display peptide library

<400> 216

Gly Phe His Thr Val Ser Leu Ser Tyr Asn Arg Gly

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<210> 217

<211> 7

<212> PRT

<213> Artificial

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<220>

<223> Peptide binding to rabbit IgG Fc fragment obtained from a combinatorial phage display peptide library

<400> 217

Phe Thr Gln Ser Pro Leu Leu

1 5

10

<210> 218

<211> 12

<212> PRT

<213> Artificial

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<220>

<223> Peptide binding to rabbit IgG Fc fragment obtained from a combinatorial phage display peptide library

<400> 218

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Gly Gln Ile Lys Val His Leu Gln Tyr Thr Pro Leu

1 5 10

<210> 219

<211> 12

<212> PRT

<213> Artificial

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<220>

<223> Peptide binding to rabbit IgG Fc fragment obtained from a combinatorial phage display peptide library

<400> 219

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<212> PRT

<213> Artificial

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<223> Peptide binding to rabbit IgG Fc fragment obtained from a combinatorial phage display peptide library

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<210> 221

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<211> 7



<212> PRT

<213> Artificial

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<223> Peptide binding to guinea pig IgG Fc fragment obtained from a combinatorial phage display peptide library

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Arg Glu Pro Thr Pro Ser Tyr

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<210> 222

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<211> 7

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<223> Peptide binding to guinea pig IgG Fc fragment obtained from a combinatorial phage display peptide library

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1 5

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<210> 223

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<213> Artificial

<220>

<223> Peptide binding to guinea pig IgG Fc fragment obtained from a combinatorial phage display peptide library

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<213> Artificial

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<223> Peptide binding to guinea pig IgG Fc fragment obtained from a combinatorial phage display peptide library

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<210> 225  
<211> 12  
<212> PRT  
<213> Artificial

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<223> Peptide binding to guinea pig IgG Fc fragment obtained from a com  
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<400> 225

Ala Trp Phe Thr Ser Ser Ile Ser Ala Asn Glu Thr

1 5 10

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<210> 226  
<211> 12  
<212> PRT  
<213> Artificial

<220>

<223> Peptide binding to guinea pig IgG Fc fragment obtained from a com  
binatorial phage display peptide library

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<400> 226

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1 5 10

40

<210> 227  
<211> 12  
<212> PRT  
<213> Artificial

<220>  
<223> Peptide binding to guinea pig IgG Fc fragment obtained from a combinatorial phage display peptide library

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Gly Thr Tyr Met Ala Tyr Thr Ser Arg His Ala Ser  
1 5 10

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<211> 12  
<212> PRT  
<213> Artificial

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<220>  
<223> Peptide binding to goat IgG Fc fragment obtained from a combinatorial phage display peptide library

<400> 228

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1 5 10

40

<210> 229  
<211> 12  
<212> PRT  
<213> Artificial

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<220>  
<223> Peptide binding to goat IgG Fc fragment obtained from a combinato  
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Gln Ile Tyr Met Ser Ser Tyr Thr Val Pro Ser Glu  
1 5 10

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<210> 230  
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rial phage display peptide library

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Gly Thr Leu Lys Val Phe Leu Pro Ala Trp Asp Phe

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<223> Peptide binding to goat IgG Fc fragment obtained from a combinato  
rial phage display peptide library

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<210> 233

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<220>

<223> Peptide binding to cat IgG Fc fragment obtained from a combinatorial phage display peptide library

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<210> 234

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<223> Peptide binding to cat IgG Fc fragment obtained from a combinatorial phage display peptide library

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Ala Ile Tyr Lys Ala Thr Leu

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<210> 235

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<211> 7

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<213> Artificial

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<400> 235

Gly Thr Met Ser Val Thr Ile

1 5

30

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<223> Peptide binding to cat IgG Fc fragment obtained from a combinatorial phage display peptide library

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<400> 236

Ser Ile Asn Ile Tyr Lys Ser Thr Leu Thr Ser Pro  
1 5 10

10

<210> 237

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<220>

<223> Peptide binding to cat IgG Fc fragment obtained from a combinatorial phage display peptide library

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<400> 237

Ser Ile Asn Ile Tyr Lys Ser Thr Trp Thr Ser Pro  
1 5 10

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<210> 238

<211> 12

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<213> Artificial

<220>

<223> Peptide binding to cat IgG Fc fragment obtained from a combinatorial phage display peptide library

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<400> 238

Thr Leu His Lys Ala Ser Val Thr Ser Pro Leu Phe  
1 5 10

10

<210> 239

<211> 12

<212> PRT

<213> Artificial

<220>

20

<223> Peptide binding to cat IgG Fc fragment obtained from a combinator  
ial phage display peptide library

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Gly Thr Tyr Lys Ala His Leu Ile Ala Pro Pro Leu  
1 5 10

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<210> 240

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<222> (1)..(1)

<223> Xaa stands for any amino acid

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<400> 240

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1 5 10

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<210> 241

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<220>

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<400> 241

Gln Ile Tyr His Ala Thr Ile Thr Ser Pro Tyr Ser

1 5 10

40

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<211> 12  
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<213> Artificial

<220>

10

<223> Peptide binding to cat IgG Fc fragment obtained from a combinatorial phage display peptide library

<400> 242

Gly His Gln Thr Arg Ile Ser Ala Ser Ile Thr Ser

1 5 10

20

<210> 243  
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<223> Peptide binding to cat IgG Fc fragment obtained from a combinatorial phage display peptide library

<400> 243

Gly Tyr Trp Ser Ala Ser Val Thr Ser Pro Pro Ser

1 5 10

40

<210> 244  
<211> 12  
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10

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<223> Peptide binding to cat IgG Fc fragment obtained from a combinatorial phage display peptide library

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Lys Val Tyr Leu Ala Thr Leu Ala Ser Pro Phe Gln

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<223> Peptide binding to cat IgG Fc fragment obtained from a combinatorial phage display peptide library

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<223> Peptide binding to cat IgG Fc fragment obtained from a combinatorial phage display peptide library

<400> 246

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Val Leu Gly Lys Thr Tyr His Ala Ala Ile Ser Ser

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<210> 247

<211> 12

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Gly Thr Ile Ser Val Ser Leu Trp Ser Trp Ala Ser  
1 5 10

<210> 248

<211> 12

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<213> Artificial

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<223> Peptide binding to cat IgG Fc fragment obtained from a combinatorial phage display peptide library

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Lys Asn Tyr Ser Ser Ser Ile Ser Ser Ile His Ala  
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<210> 249

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<223> Peptide binding to dog IgG Fc fragment obtained from a combinatorial phage display peptide library

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<400> 249

Gly Trp Lys Phe Val Thr Leu

1 5

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<223> Peptide binding to dog IgG Fc fragment obtained from a combinatorial phage display peptide library

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<400> 250

Gly Thr Leu Arg Val Thr Ile

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<210> 251

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<223> Peptide binding to dog IgG Fc fragment obtained from a combinatorial phage display peptide library

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1 5 10

<210> 252

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<211> 12

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<223> Peptide binding to dog IgG Fc fragment obtained from a combinatorial phage display peptide library

20

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<210> 253

<211> 12

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<213> Artificial

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<223> Peptide binding to dog IgG Fc fragment obtained from a combinatorial phage display peptide library

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<400> 253

Gly Ser Thr Phe Ala Thr Ile Arg Phe Ser Pro His

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10

10

<210> 254

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<220>

<223> Peptide binding to dog IgG Fc fragment obtained from a combinatorial phage display peptide library

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10

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<210> 255

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<213> Artificial

<220>

<223> Peptide binding to dog IgG Fc fragment obtained from a combinatorial phage display peptide library

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## ial phage display peptide library

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<211> 12

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<213> Artificial

<220>

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ial phage display peptide library

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<210> 257

<211> 12

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<220>

<223> Peptide binding to dog IgG Fc fragment obtained from a combinatorial phage display peptide library

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Gly Ser Thr Phe Ala Thr Ile Arg Phe Ser Pro His

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<210> 258

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<210> 259

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<220>

<223> Peptide binding to dog IgG Fc fragment obtained from a combinatorial phage display peptide library

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His Thr Tyr Phe Ala Thr Ile Ser Arg Ser Ser Asn  
1 5 10

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<210> 260

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<220>

<223> Peptide binding to dog IgG Fc fragment obtained from a combinatorial phage display peptide library

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Gly Thr Ser His Lys Ser Ile Ser Ile Ser Asp Thr  
1 5 10

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<210> 261

<211> 12

<212> PRT

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40

<220>

<223> Peptide binding to dog IgG Fc fragment obtained from a combinatorial phage display peptide library

<400> 261

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Gly Thr Leu His Lys Ser Ile Ser Ile Ser Asp Thr

1                      5                      10

<210> 262

<211> 12

<212> PRT

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<213> Artificial

<220>

<223> Peptide binding to bovine IgG Fc fragment obtained from a combinatorial phage display peptide library

<400> 262

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Gly Ser Arg Ala Ser Ser Ile Asn Ile Phe His Ala

1                      5                      10

<210> 263

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<211> 12

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<213> Artificial

<220>

<223> Peptide binding to bovine IgG Fc fragment obtained from a combinatorial phage display peptide library

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<400> 263

Gln Thr Tyr Ser Val Ser Ile Asn Ile Met Gly Ser

1

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<210> 264

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<211> 12

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<213> Artificial

<220>

<223> Peptide binding to bovine IgG Fc fragment obtained from a combinatorial phage display peptide library

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<400> 264

Gly Met Thr Ser Arg Ser Leu Asn Val Tyr Ser Ala

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5

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<210> 265

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<220>

<223> Peptide binding to bovine IgG Fc fragment obtained from a combinatorial phage display peptide library

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<400> 265

Gly Thr Ile His Val Ser Ala Asn Val His Ser Phe  
1                      5                      10

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<210> 266  
<211> 12  
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<213> Artificial

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<223> Peptide binding to bovine IgG Fc fragment obtained from a combinatorial phage display peptide library

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<400> 266

Val Lys Gln Thr Asn Ile Tyr Thr Ala Ser Ile Arg  
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Gly Thr Tyr Val Ala His Leu Ser Lys Phe Asn Arg

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<223> Peptide binding to swine IgG Fc fragment obtained from a combinat  
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<220>

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Lys Val Tyr Thr Ser Thr Ile Ser Ser Leu Gln Pro

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<220>

<223> Peptide binding to swine IgG Fc fragment obtained from a combinat  
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Lys Leu Tyr Val Ser Ser Ile Gln Ala Thr Ser Pro

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<220>  
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Ala Pro His Arg Tyr Thr Ser Thr Ile Ser Val His

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Ala Gln Lys His Phe Tyr Ser Thr Ile Ser Val Asp

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<211> 12

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<220>

<223> Peptide binding to swine IgG Fc fragment obtained from a combinat  
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<400> 273

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Thr Thr Tyr Tyr Ala Ser Ser Ile Ser Arg Tyr Ser

1                      5                      10

<210> 274

<211> 12

<212> PRT

<213> Artificial

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<220>

<223> Peptide binding to swine IgG Fc fragment obtained from a combinat  
      orial phage display peptide library

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<210> 275

<211> 12

<212> PRT

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<220>

<223> Peptide binding to swine IgG Fc fragment obtained from a combinat  
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Thr Met Tyr Val Ser Thr Ile Ser Ser Lys His Leu  
1 5 10

<210> 276

<211> 12

<212> PRT

<213> Artificial

30

<220>

<223> Peptide binding to swine IgG Fc fragment obtained from a combinat  
orial phage display peptide library

<400> 276

40

His Met Lys Val Tyr Ser Ser Thr Ile Ser Arg Leu

1 5 10

<210> 277

<211> 12

<212> PRT

<213> Artificial

<220>

<223> Peptide binding to swine IgG Fc fragment obtained from a combinat  
orial phage display peptide library

<400> 277

Ala Pro His Arg Tyr Thr Ser Thr Ile Ser Val His

1 5 10

<210> 278

<211> 12

<212> PRT

<213> Artificial

<220>

<223> Peptide binding to mouse IgG Fc fragment obtained from a combinat  
orial phage display peptide library

<400> 278

His Leu Tyr Thr Ala Thr Leu Leu Arg Ser Asn Leu  
1 5 10

<210> 279

10

<211> 12

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<213> Artificial

<220>

<223> Peptide binding to mouse IgG Fc fragment obtained from a combinat  
orial phage display peptide library

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<400> 279

Ser His Trp Gln Val Thr Ala Thr Leu Thr Arg Trp  
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30

<210> 280

<211> 12

<212> PRT

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<220>

<223> Peptide binding to mouse IgG Fc fragment obtained from a combinat  
orial phage display peptide library

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<400> 280

Leu Leu Ala Asp Thr Thr His His Arg Pro Trp Thr  
1 5 10

10

<210> 281

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Peptide binding to human IgG Fc fragment obtained from a combinat  
orial phage display peptide library

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<400> 281

Arg Leu Trp Leu His Arg His Lys Leu Val  
1 5 10

30

<210> 282

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Peptide binding to human IgG Fc fragment obtained from a combinat

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## combinatorial phage display peptide library

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Phe Gly Arg Leu Val Ser Ser Ile Arg Tyr  
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<210> 283

<211> 10

<212> PRT

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<220>

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<223> Peptide binding to human IgG Fc fragment obtained from a combinatorial phage display peptide library

<220>

<221> MISC\_FEATURE

<222> (4)..(4)

<223> Xaa stands for Leu or Val

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<400> 283

Phe Ala Arg Xaa Val Ser Ser Ile Arg Tyr  
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<210> 284  
<211> 10  
<212> PRT  
<213> Artificial

<220>

<223> Peptide binding to human IgG Fc fragment obtained from a combinat  
orial phage display peptide library

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Thr Trp Lys Thr Ser Arg Ile Ser Ile Phe

1                      5                      10

20

<210> 285  
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<223> Peptide binding to human IgG Fc fragment obtained from a combinat  
orial phage display peptide library

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<220>

<221> MISC\_FEATURE

<222> (1)..(1)

<223> Xaa stands for Phe or Leu

40

<400> 285

Xaa Gly Arg Leu Val Ser Ser Ile Arg Tyr

1 5 10

10

<210> 286

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Peptide binding to human IgG Fc fragment obtained from a combinat  
orial phage display peptide library

20

<220>

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<222> (2)..(2)

<223> Xaa stands for any amino acid

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<400> 286

Phe Xaa Arg Leu Val Ser Ser Ile Arg Tyr

1 5 10

40

<210> 287

<211> 10  
<212> PRT  
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<220>

<223> Peptide binding to human IgG Fc fragment obtained from a combinat  
orial phage display peptide library

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<220>

<221> MISC\_FEATURE

<222> (6)..(6)

<223> Xaa stands for any amino acid

20

<400> 287

Trp Arg Lys Tyr Leu Xaa Arg His Ala Leu  
1 5 10

<210> 288

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<211> 84

<212> DNA

<213> M13 phage

<220>

<221> sig\_peptide

<222> (1)..(54)

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<223>

<400> 288

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ggttcggccg aaactgttga aagt 84

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<210> 289

<211> 22

<212> DNA

<213> Artificial

<220>

<223> PCR primer

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<400> 289

agagtgagaa tagaaaggta cc 22

<210> 290

<211> 43

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<213> Artificial

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<400> 290

aaactttatc atttatctat tggtaggaggt tcggccgaaa ctg 43

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<210> 291  
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<213> Artificial

10

<220>  
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<400> 291  
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【図面の簡単な説明】

20

【図 1】配列番号 165～167、169、170、172、173、175～189 で表されるアミノ酸配列を有するペプチドを呈示したファージの human Fc に対する結合性の確認試験の結果を表す図である。

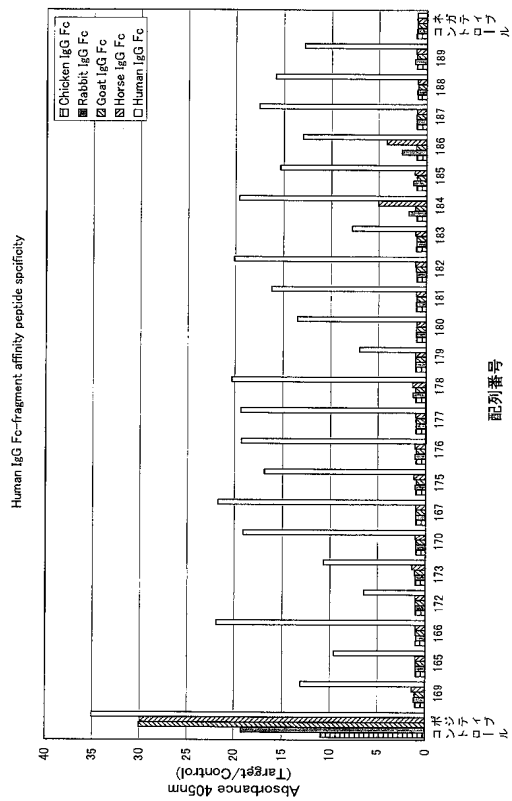
【図 2】配列番号 165～167、169、170、172、173、175～189 で表されるアミノ酸配列を有するペプチドを呈示したファージのヒト由来 IgG に対する特異性を検討した結果を示す図である。

【図 3】配列番号 166 で表されるアミノ酸配列を有するペプチドを呈示したファージを二次抗体として用い、human Fc を検出した結果を示す図である。

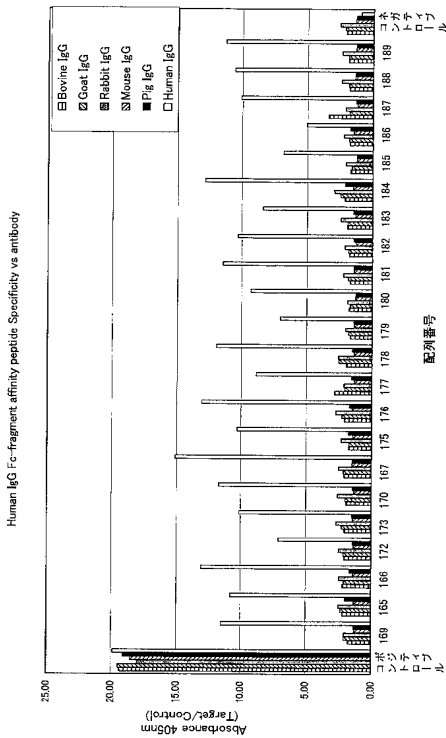
【図 4】配列番号 173 で表されるアミノ酸配列を有するペプチドを呈示したファージを二次抗体として用い、human Fc を検出した結果を示す図である。

30

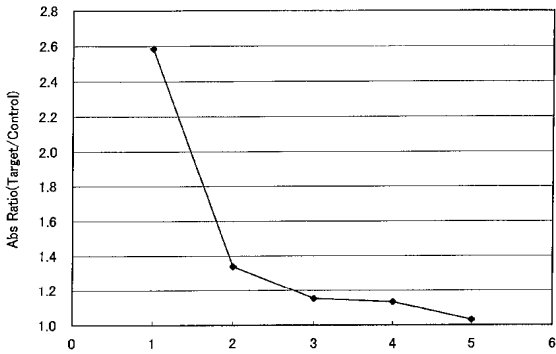
【図 1】



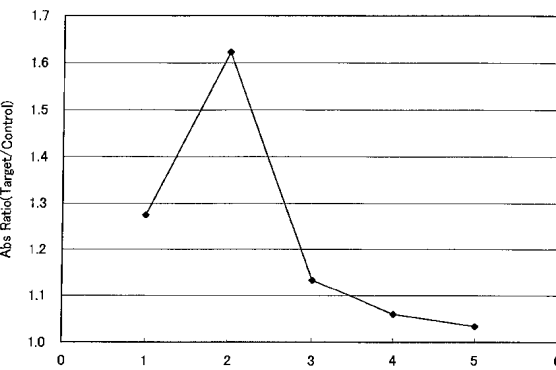
【図 2】



【図 3】



【図 4】



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フロントページの続き

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